

[Name of Document] Abstract of the Disclosure

[Abstract]

[Object] To be able to compare and review estimates from a plurality of manufacturers.

[Solving Means] Cost factor data are provided from a plurality of makers 13 with respect to information such as CAD data, etc. of components which are provided by a development department 10, and stored in databases 15, 16. Manufacturing costs are calculated for the respective makers based on the cost factor data, and then displayed. The provided information and the cost factor data stored in the databases 15, 16 are browsed through a network. The cost factor data stored in the databases 15, 16 are updated through the network. The displayed manufacturing costs are browsed through the network.

[Selected Drawing] FIG. 1

[FIG. 1]

10: DEVELOPMENT  
11: MANAGEMENT  
12: PURCHASE  
13.<sub>1</sub>: PRODUCTION SITE  
13.<sub>2</sub>: PRODUCTION SITE  
13.<sub>n</sub>: PRODUCTION SITE  
14: MEMORY DEVICE  
15: MANUFACTURING COST PRICE DATABASE  
16: VARIABLE COST DATABASE  
17.<sub>1</sub>: COMPONENT MAKER  
17.<sub>2</sub>: COMPONENT MAKER  
17.<sub>N</sub>: COMPONENT MAKER  
100: IN-HOUSE NET  
200: INTERNET

[FIG. 2]

1: INPUT DEVICE  
2: DISPLAY DEVICE  
3: MEMORY UNIT  
14: MEMORY DEVICE  
15: MANUFACTURING COST PRICE DATABASE  
16: VARIABLE COST DATABASE  
41: DISPLAY INFORMATION PROCESSOR

42: INPUT INFORMATION PROCESSOR  
43: MANUFACTURING COST PRICE ELEMENT CALCULATOR  
44: VARIABLE COST ELEMENT CALCULATOR  
45: COST CALCULATION PROCESSOR  
46: CALCULATED RESULT DISPLAY UNIT

[FIG. 3]

10: DEVELOPMENT DEPARTMENT  
11: MANAGEMENT DEPARTMENT  
12: PURCHASE DEPARTMENT  
13: INTERNAL PRODUCTION DEPARTMENT  
14: MEMORY DEVICE  
15, 16: DATABASE  
17: COMPONENT MAKER  
17: COMPONENT MAKER  
NEGOTIATION

[FIG. 4]

START OF ESTIMATION  
S1: SELECT COMPONENT CHARACTERISTICS  
S2: CALCULATE COST FOR E  
S3: CALCULATE COST FOR F  
S4: CALCULATE COST FOR C  
S5: CALCULATE COST FOR D

END

[FIG. 5]

SEQUENTIAL PROCESS

CHARGED

D1: BLANKING/MARKING

D2: DRAWING

D3: PUNCHING

D4: BURRING 1

D5: BURRING 2

D6: DRAWING FOR FINISHING

COMPLETED COMPONENT

SINGLE PROCESS

CHARGED

D1: BLANKING/MARKING

CHARGED

D2: DRAWING

CHARGED

D3: PUNCHING

CHARGED

D4: BURRING 1

CHARGED

D5: BURRING 2

CHARGED

D6: DRAWING FOR FINISHING

COMPLETED COMPONENT

MARKING

FINISHING OF INNER CIRCUMFERENTIAL SURFACE OF BOSS

FINISHING OF INNER CIRCUMFERENTIAL SURFACE OF HUB

[FIG. 6]

AFTER CHANGE a1

AFTER CHANGE a2

AFTER CHANGE a1

AFTER CHANGE a2